

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Spring 2010 Levee Inspection Results**

Reclamation District No. 0003 Grand Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2010 Levee Inspection Results

Reclamation District No. 0003 Grand Island

Waterway			Bank	Unit Miles
Unit No. 01 Left Bank Steamboat Slough			Left	11.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/11/2010 - 5/11/2010			
DWR Inspector	Richard Willoughby			
Accompanied By	Michael Moncrief MBK			

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough						Left	11.03	05/11/2010 05/11/2010	Richard Willoughby

LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.01	11.01	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	38.304090 ° -121.574645 °	38.182481 ° -121.653198 °	2
2	0.01	11.01	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	38.304090 ° -121.574645 °	38.182479 ° -121.653200 °	1
3	0.18	0.25	Supplemental	USACE Erosion Survey	WS	U	Inspector Comments: 2009: 5 ft berm, 1.5:1 slope, tree hazards, holes, and slumping, clays and silts, 4.76 ft/s [2009 SiteID:STM_26-0_L]	38.303083 ° -121.577386 °	38.302622 ° -121.578325 °	24 Y
4	0.22	0.33	Earthen Levee	Encroachments	WS	CO	Landscaping	38.302530 ° -121.577848 °	38.301424 ° -121.579113 °	6 Y
5	0.39	0.39	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.300492 ° -121.579454 °	38.300492 ° -121.579454 °	3
6	0.46	0.46	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove century plant on landside shoulder.	38.299714 ° -121.579947 °	38.299714 ° -121.579947 °	4
7	0.92	0.97	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009: 5 ft berm, 1.5:1 slope, tree hazards and holes, clays and silts, 4.48 ft/s [2009 SiteID:STM_25-0_L]	38.293386 ° -121.582694 °	38.292683 ° -121.582917 °	26 Y
8	1.04	1.08	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009: no berm, 1.5:1 slope, tree hazards and holes, clays and silts, 4.9 ft/s [2009 SiteID:STM_24-8_L]	38.291703 ° -121.583033 °	38.291047 ° -121.583075 °	28 Y
9	1.08	1.09	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: Picture no. 1	38.291055 ° -121.582765 °	38.290898 ° -121.582777 °	12 Y
10	1.21	1.27	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: Picture no. 2	38.289210 ° -121.582770 °	38.288390 ° -121.582818 °	13 Y
11	1.28	1.33	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.288183 ° -121.582808 °	38.287433 ° -121.582982 °	5
12	1.60	1.60	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level. Inspector Comments: Picture no. 3	38.284777 ° -121.586340 °	38.284777 ° -121.586340 °	15 Y
13	1.61	1.61	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level. Inspector Comments: Picture no. 4	38.284645 ° -121.586534 °	38.284645 ° -121.586534 °	7 Y
14	1.64	1.66	Earthen Levee	Encroachments	LS	PO	Landscaping	38.284574 ° -121.586631 °	38.284177 ° -121.587208 °	16
15	1.77	1.77	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.282771 ° -121.588227 °	38.282771 ° -121.588227 °	8

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected
C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough							Left	11.03	05/11/2010 05/11/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
16	2.11	2.11	Earthen Levee	Encroachments	LS	M	Material	38.278070 ° -121.589033 °	38.278070 ° -121.589033 °	974 Y
17	2.80	2.83	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009: no berm, 1.5:1 slope, tree hazards, clays and silts, 4.66 ft/s [2009 SiteID:STM_23-2_L]	38.269283 ° -121.588964 °	38.268858 ° -121.588656 °	29 Y
18	3.13	3.15	Earthen Levee	Encroachments	LS	CO	Landscaping Inspector Comments: Oleander on landside shoulder. Picture no. 5	38.264902 ° -121.587193 °	38.264580 ° -121.587220 °	20 Y
19	3.90	3.90	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.257453 ° -121.593942 °	38.257453 ° -121.593942 °	9
20	5.13	5.13	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove century plant on waterside slope.	38.242654 ° -121.600860 °	38.242654 ° -121.600860 °	10
21	5.30	5.30	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove century plant on landside slope and toe.	38.240281 ° -121.601576 °	38.240281 ° -121.601576 °	11
22	5.37	5.40	Earthen Levee	Encroachments	LS	PO	Landscaping	38.239276 ° -121.601899 °	38.238852 ° -121.602000 °	43
23	5.48	5.50	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.237690 ° -121.602231 °	38.236575 ° -121.602155 °	44
24	5.53	5.53	Earthen Levee	Encroachments	LS	PO	Landscaping	38.237000 ° -121.602208 °	38.237000 ° -121.602208 °	45
25	5.54	5.54	Earthen Levee	Vegetation	LS	U	Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Remove century plant on landside shoulder and slope. Picture no. 6	38.236876 ° -121.602178 °	38.236876 ° -121.602178 °	14 Y
26	7.08	7.10	Earthen Levee	Encroachments	LS	PO	Landscaping Inspector Comments: Remove century plant on landside shoulder and slope. Picture no. 7	38.215490 ° -121.604700 °	38.215355 ° -121.604793 °	23 Y
27	7.81	7.83	Earthen Levee	Encroachments	WS	PO	Landscaping	38.205964 ° -121.609576 °	38.205733 ° -121.609608 °	971 Y
28	7.95	8.00	Earthen Levee	Encroachments	LS	CO	Landscaping	38.203945 ° -121.609932 °	38.203283 ° -121.610025 °	25 Y
29	8.45	8.45	Earthen Levee	Encroachments	LS	PO	Landscaping	38.197194 ° -121.612947 °	38.197194 ° -121.612947 °	17
30	8.95	8.95	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	38.193142 ° -121.620206 °	38.193142 ° -121.620206 °	18

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough						Left	11.03	05/11/2010 05/11/2010	Richard Willoughby

LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
31	10.20	10.22	Earthen Levee	Trim / Thin Trees	LS	U	Trim and thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Picture no. 8	38.188613 ° -121.641175 °	38.188388 ° -121.641485 °	27 Y
32	10.87	11.01	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.183204 ° -121.650861 °	38.182481 ° -121.653199 °	19

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	05/11/2010 05/11/2010	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.18
End Levee Mile	0.25
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 1.5:1 slope, tree hazards, holes, and slumping, clays and silts, 4.76 ft/s [2009 SiteID:STM_26-0_L]	
USACE2009_STM_26-0_L_2009_09_18-D4P89_small.JPG	



Levee Mile Report Line	4
Start Levee Mile	0.22
End Levee Mile	0.33
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Dense landscaping on waterside from LM 0.22 to 0.28	
richard_s_20100505_013.jpg	



Levee Mile Report Line	4
Start Levee Mile	0.22
End Levee Mile	0.33
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking upstream at dense landscaping on waterside slope from LM 0.22 to 0.28	
richard_s_20100505_014.jpg	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	05/11/2010 05/11/2010	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	0.92
End Levee Mile	0.97
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: 5 ft berm, 1.5:1 slope, tree hazards and holes, clays and silts, 4.48 ft/s [2009 SiteID:STM_25-0_L]	
USACE2009_STM_25-0_L_2009_09_18-D4P91_small.JPG	



Levee Mile Report Line	8
Start Levee Mile	1.04
End Levee Mile	1.08
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
2009: no berm, 1.5:1 slope, tree hazards and holes, clays and silts, 4.9 ft/s [2009 SiteID:STM_24-8_L]	
USACE2009_STM_24-8_L_2009_09_18-D4P93_small.JPG	



Levee Mile Report Line	9
Start Levee Mile	1.08
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Down tree limbs on landside slope from LM 1.08 to 1.09	
richard_s_20100505_015.jpg	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	05/11/2010 05/11/2010	Richard Willoughby

Levee Mile Report Line	10
Start Levee Mile	1.21
End Levee Mile	1.27
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on landside slope block view of levee from LM 1.21 to 1.27

richard_s_20100505_016.jpg



Levee Mile Report Line	12
Start Levee Mile	1.60
End Levee Mile	1.60
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southeast at dense trees on landside shoulder and slope.

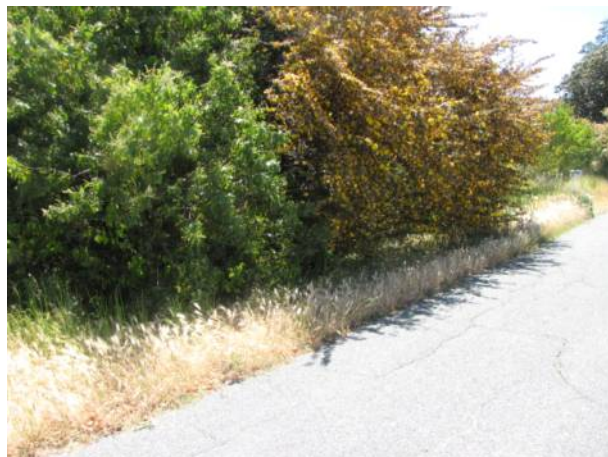
richard_s_20100513_076.jpg



Levee Mile Report Line	13
Start Levee Mile	1.61
End Levee Mile	1.61
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking northeast at dense trees on landside slope.

richard_s_20100513_077.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	05/11/2010 05/11/2010	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	2.11
End Levee Mile	2.11
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at concrete rubble at landside shoulder and ramp.

richard_s_20100505_023.jpg



Levee Mile Report Line	16
Start Levee Mile	2.11
End Levee Mile	2.11
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at equipment and storage containers at landside toe.

richard_s_20100505_024.jpg



Levee Mile Report Line	17
Start Levee Mile	2.80
End Levee Mile	2.83
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

2009: no berm, 1.5:1 slope, tree hazards, clays and silts, 4.66 ft/s [2009 SiteID:STM_23-2_L]

USACE2009_STM_23-2_L_2009_09_18-D4P98_small.JPG



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	05/11/2010 05/11/2010	Richard Willoughby

Levee Mile Report Line	18
Start Levee Mile	3.13
End Levee Mile	3.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at dense veg. on landside slope.

richard_s_20100513_078.jpg



Levee Mile Report Line	25
Start Levee Mile	5.54
End Levee Mile	5.54
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking northeast at century plants on landside shoulder and slope.

richard_s_20100513_079.jpg



Levee Mile Report Line	26
Start Levee Mile	7.08
End Levee Mile	7.10
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Large Cactus plant on landside shoulder block view of levee slope from LM 7.08 to 7.10

richard_s_20100505_017.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	05/11/2010 05/11/2010	Richard Willoughby

Levee Mile Report Line	26
Start Levee Mile	7.08
End Levee Mile	7.10
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at updated picture (5/2010) century plant on landside shoulder and slope.

richard_s_20100513_080.jpg



Levee Mile Report Line	27
Start Levee Mile	7.81
End Levee Mile	7.83
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Front view of dense trees at landside toe.

richard_s_20100505_021.jpg



Levee Mile Report Line	27
Start Levee Mile	7.81
End Levee Mile	7.83
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Side view of dense trees at landside toe.

richard_s_20100505_022.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	05/11/2010 05/11/2010	Richard Willoughby

Levee Mile Report Line	28
Start Levee Mile	7.95
End Levee Mile	8.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping (Ivy) on landside slope blocking view of levee from LM 7.95 to 8.00

richard_s_20100505_018.jpg



Levee Mile Report Line	31
Start Levee Mile	10.20
End Levee Mile	10.22
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Trees to be trimmed on landside shoulder from LM 10.20 to 10.22

richard_s_20100505_019.jpg



Levee Mile Report Line	31
Start Levee Mile	10.20
End Levee Mile	10.22
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Side view of trees on landside shoulder.

richard_s_20100505_020.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Left Bank Steamboat Slough	Left	11.03	05/11/2010 05/11/2010	Richard Willoughby

Levee Mile Report Line	31
Start Levee Mile	10.20
End Levee Mile	10.22
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking north at updated picture (5/10) of dense trees on landside slope.	
richard_s_20100513_081.jpg	

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2010 Levee Inspection Results

Reclamation District No. 0003 Grand Island

Waterway			Bank	Unit Miles
Unit No. 02 Right Bank Sacramento River			Right	17.62
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/12/2010 - 5/12/2010			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Right Bank Sacramento River						Right	17.62	05/12/2010 05/12/2010	Richard Willoughby	
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	17.62	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	38.175965 ° -121.653708 °	38.304009 ° -121.574314 °	1
2	0.00	17.62	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	38.175965 ° -121.653708 °	38.304009 ° -121.574314 °	2
3	0.17	0.17	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.174890 ° -121.651031 °	38.174890 ° -121.651031 °	3
4	0.25	0.25	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees over roadway to at least 12 feet above ground level.	38.174504 ° -121.649651 °	38.174504 ° -121.649651 °	4
5	0.31	0.33	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Picture no. 9	38.174281 ° -121.648698 °	38.174209 ° -121.648352 °	5 Y
6	1.93	1.98	Earthen Levee	Encroachments	WS	CO	Landscaping	38.166525 ° -121.622201 °	38.166176 ° -121.621332 °	70
7	2.50	2.50	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.164369 ° -121.612548 °	38.164369 ° -121.612548 °	6
8	2.75	2.80	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.164430 ° -121.609077 °	38.164725 ° -121.607141 °	951
9	3.29	3.29	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.167808 ° -121.599557 °	38.167808 ° -121.599557 °	7
10	3.83	3.92	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.173977 ° -121.593725 °	38.175118 ° -121.592925 °	8
11	3.87	3.87	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.174430 ° -121.593372 °	38.174430 ° -121.593372 °	952
12	3.90	3.98	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.174817 ° -121.593110 °	38.175837 ° -121.592428 °	953
13	4.01	4.14	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.176251 ° -121.592161 °	38.177846 ° -121.591127 °	9
14	4.35	4.35	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.180361 ° -121.589127 °	38.180361 ° -121.589127 °	10
15	4.36	4.42	Earthen Levee	Encroachments	LS	CO	Landscaping	38.180531 ° -121.589103 °	38.181330 ° -121.588480 °	92
16	4.72	4.80	Earthen Levee	Encroachments	LS	PO	Landscaping	38.184832 ° -121.585386 °	38.185737 ° -121.584473 °	13
17	5.05	5.16	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	38.188344 ° -121.581414 °	38.189227 ° -121.579912 °	14

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Right Bank Sacramento River						Right	17.62	05/12/2010 05/12/2010	Richard Willoughby	
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
18	5.94	6.00	Earthen Levee	Encroachments	LS	CO	Landscaping	38.193552 ° -121.566933 °	38.193832 ° -121.565995 °	11 Y
19	6.66	6.69	Earthen Levee	Encroachments	LS	CO	Landscaping	38.201255 ° -121.558977 °	38.201634 ° -121.558886 °	88
20	7.02	7.04	Earthen Levee	Trim / Thin Trees	LS	U	Trim trees to at least five feet above ground level. Inspector Comments: Picture no. 10	38.206363 ° -121.558520 °	38.206598 ° -121.558530 °	12 Y
21	7.16	7.16	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes.	38.208205 ° -121.558565 °	38.208205 ° -121.558565 °	16 Y
22	8.41	8.41	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.226073 ° -121.557018 °	38.226073 ° -121.557018 °	17
23	9.13	9.13	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.235989 ° -121.559579 °	38.235989 ° -121.559579 °	20
24	9.18	9.18	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.236608 ° -121.559468 °	38.236608 ° -121.559468 °	15
25	9.53	9.79	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.240870 ° -121.556232 °	38.242473 ° -121.552207 °	18
26	9.88	9.98	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.242407 ° -121.550468 °	38.242199 ° -121.548702 °	21
27	10.13	10.13	Earthen Levee	Encroachments	LS	CO	Fences	38.241880 ° -121.546108 °	38.241880 ° -121.546108 °	19 Y
28	10.24	10.29	Earthen Levee	Encroachments	LS	PO	Landscaping	38.241551 ° -121.544035 °	38.241422 ° -121.543236 °	85
29	10.34	10.38	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.241160 ° -121.542377 °	38.241005 ° -121.541618 °	22
30	10.61	10.61	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.239984 ° -121.537580 °	38.239984 ° -121.537580 °	23
31	11.79	11.79	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.241300 ° -121.517073 °	38.241300 ° -121.517073 °	24
32	12.03	12.07	Earthen Levee	Encroachments	LS	CO	Landscaping	38.243915 ° -121.514254 °	38.244392 ° -121.513740 °	83
33	12.23	12.30	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.246310 ° -121.512157 °	38.247332 ° -121.511773 °	31
34	12.33	12.40	Earthen Levee	Encroachments	LS	PO	Landscaping	38.247788 ° -121.511695 °	38.248682 ° -121.511657 °	32
35	12.48	12.55	Earthen Levee	Encroachments	LS	PO	Landscaping	38.249920 ° -121.511845 °	38.250808 ° -121.512152 °	34

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Right Bank Sacramento River						Right	17.62	05/12/2010 05/12/2010	Richard Willoughby	
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
36	12.49	12.49	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	38.249937 ° -121.511834 °	38.249937 ° -121.511834 °	25
37	12.60	12.63	Earthen Levee	Encroachments	LS	CO	Landscaping	38.251463 ° -121.512458 °	38.251873 ° -121.512678 °	35
38	12.77	12.85	Earthen Levee	Encroachments	LS	PO	Landscaping	38.253593 ° -121.513883 °	38.254590 ° -121.514862 °	37
39	12.89	12.89	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.254942 ° -121.515165 °	38.254942 ° -121.515165 °	26
40	13.26	13.29	Earthen Levee	Encroachments	LS	CO	Landscaping	38.258703 ° -121.520160 °	38.259003 ° -121.520557 °	82
41	13.61	13.64	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.262234 ° -121.524597 °	38.262514 ° -121.524989 °	27
42	13.87	13.98	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.264769 ° -121.527913 °	38.265921 ° -121.529349 °	28
43	14.05	14.05	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.266624 ° -121.530255 °	38.266624 ° -121.530255 °	29
44	14.11	14.11	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.267183 ° -121.530993 °	38.267183 ° -121.530993 °	30
45	14.19	14.19	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.267951 ° -121.532097 °	38.267951 ° -121.532097 °	33
46	14.36	14.38	Earthen Levee	Encroachments	LS	PO	Landscaping	38.269642 ° -121.534540 °	38.269882 ° -121.534863 °	50
47	14.53	14.70	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.271353 ° -121.536801 °	38.273011 ° -121.538933 °	36
48	15.20	15.27	Earthen Levee	Encroachments	LS	PO	Landscaping	38.278237 ° -121.545405 °	38.278930 ° -121.546218 °	53
49	15.83	15.91	Earthen Levee	Encroachments	LS	CO	Landscaping	38.284124 ° -121.554084 °	38.284933 ° -121.555052 °	79
50	16.45	16.51	Earthen Levee	Encroachments	LS	PO	Landscaping	38.290742 ° -121.561575 °	38.291390 ° -121.562268 °	60
51	16.80	16.88	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009: no berm, 1.5:1 slope, no stability issues, sands and silts, 5.23 ft/s [2009 SiteID:SAC_31-6_R]	38.295744 ° -121.566244 °	38.294772 ° -121.565325 °	38 Y
52	16.84	16.90	Earthen Levee	Encroachments	LS	PO	Landscaping	38.295082 ° -121.566037 °	38.295832 ° -121.566756 °	77

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	05/12/2010 05/12/2010	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	0.31
End Levee Mile	0.33
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking northeast at bamboo on waterside slope.

richard_s_20100513_082.jpg



Levee Mile Report Line	18
Start Levee Mile	5.94
End Levee Mile	6.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Oleander on landside shoulder blocking view of levee slope from LM 5.94 to 6.00

richard_s_20100505_025.jpg



Levee Mile Report Line	18
Start Levee Mile	5.94
End Levee Mile	6.00
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Oleander on landside shoulder blocking view of levee slope from LM 5.94 to 6.00

richard_s_20100505_026.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	05/12/2010 05/12/2010	Richard Willoughby

Levee Mile Report Line	20
Start Levee Mile	7.02
End Levee Mile	7.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Dense trees at landside toe and shoulder

richard_s_20100505_027.jpg



Levee Mile Report Line	20
Start Levee Mile	7.02
End Levee Mile	7.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Front view of palm trees on landside shoulder

richard_s_20100505_028.jpg



Levee Mile Report Line	20
Start Levee Mile	7.02
End Levee Mile	7.04
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southwest at updated dense veg on landside slope.

richard_s_20100513_083.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0003 Grand Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Right Bank Sacramento River	Right	17.62	05/12/2010 05/12/2010	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	7.16
End Levee Mile	7.16
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at dense veg. on landside toe.

richard_s_20100513_084.jpg



Levee Mile Report Line	27
Start Levee Mile	10.13
End Levee Mile	10.13
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Block/Concrete fence on landside shoulder at LM 10.13

richard_s_20100505_029.jpg



Levee Mile Report Line	51
Start Levee Mile	16.80
End Levee Mile	16.88
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

2009: no berm, 1.5:1 slope, no stability issues, sands and silts, 5.23 ft/s [2009 SiteID:SAC_31-6_R]

USACE2009_SAC_31-6_R_2009_09_17-D3bP44_small.JPG



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